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NEWS 6 Oct 27 Plasdoc Key' Serials Dictionary and Echoing added to
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=> s fuzzy logic

2857 FUZZY

7067 LOGIC

L1 817 FUZZY LOGIC

(FUZZY(W) LOGIC)

=> s image processing

114203 IMAGE

281980 PROCESSING

L2 4930 IMAGE PROCESSING

(IMAGE(W) PROCESSING)

=> s l1 and l2

L3 11 L1 AND L2

=> d 1-11

L3 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 2001:110481 CAPLUS
TI Fuzzy neural network approach to classifying dyeing defects
AU Huang, Chang-Chiun; Yu, Wen-Hong
CS Department of Textile Engineering, National Taiwan University of Science and Technology, Taipei, Taiwan
SO Text. Res. J. (2001), 71(2), 100-104
CODEN: TRJOA9; ISSN: 0040-5175
PB Textile Research Institute
DT Journal
LA English
RE.CNT 10
RE
(1) Chen, P; Textile Res J 1998, V68, P121 CAPLUS
(2) Gonzalez, R; Digital Image Processing, 1993
(3) He, W; J Intell Manuf 1998, V9, P17
(9) Sette, S; Textile Res J 1995, V65, P196 CAPLUS
(10) Tsai, I; Textile Res J 1995, V65, P123 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 2000:402680 CAPLUS
DN 133:219650
TI Mapping and fuzzy classification of macromolecular images using self-organizing neural networks
AU Pascual, A.; Barcena, M.; Merelo, J. J.; Carazo, J.-M.
CS Centro Nacional de Biotecnologia-CSIC, Universidad Autonoma, Madrid, 28049, Spain
SO Ultramicroscopy (2000), 84(1/2), 85-99
CODEN: ULTRD6; ISSN: 0304-3991
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 37
RE
(4) Bonnet, N; J Microsc 1998, V190, P2 CAPLUS
(5) Carazo, J; J Microsc 1990, V157, P187 CAPLUS
(16) Harauz, G; Micron 1998, V29, P161 CAPLUS
(21) Kocsis, E; Ultramicroscopy 1995, V60, P219 CAPLUS
(24) Marabini, R; Biophys J 1994, V66, P1804 CAPLUS
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2001 ACS
AN 1999:359894 CAPLUS
DN 131:225676
TI FEW-FTIR spectroscopy applications and computer data processing for noninvasive skin tissue diagnostics in vivo
AU Brooks, Angelique L.; Afanasyeva, Natalia I.; Makhine, Vladimir; Bruch, Reinhard F.; McGregor, Byron
CS Dep. Phys./220, Univ. of Nevada Reno, Reno, NV, USA
SO Proc. SPIE-Int. Soc. Opt. Eng. (1999), 3596(Specialty Fiber Optics for Medical Applications), 140-151
CODEN: PSISDG; ISSN: 0277-786X
PB SPIE-The International Society for Optical Engineering
DT Journal

LA English

RE.CNT 46

RE

(1) Afanasyeva, N; Die Makromolekulare Chemie Macromol Symp 1995, V94, P269
CAPLUS

(5) Alsberg, B; Analyst 1997, V122, P645 CAPLUS

(12) Barclay, V; Analytical Chemistry 1997, V69, P78 CAPLUS

(19) Dwivedi, A; Macromolecules 1982, V15, P177 CAPLUS

(20) Frank, C; Analytical Chemistry 1995, V67(5), P777 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2001 ACS

AN 1998:633051 CAPLUS

DN 129:277884

TI Measurement and control of granule growth in fluidized bed granulation by
a newly developed **image processing** system

AU Watano, S.; Miyanami, K.

CS Dep. Chemical Eng., Osaka Prefecture Univ., Osaka, Japan

SO World Congr. Part. Technol. 3 (1998), 208-218 Publisher: Institution of
Chemical Engineers, Rugby, UK.

CODEN: 66PSA9

DT Conference; (computer optical disk)

LA English

L3 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2001 ACS

AN 1998:305618 CAPLUS

DN 129:88478

TI **Fuzzy logic** approaches to the analysis of HREM images
of III-V compounds

AU Hillebrand, R.

CS Max-Planck-Institut fur Mikrostrukturphysik, Halle/Saale, D-06120,
Germany

SO J. Microsc. (Oxford) (1998), 190(1/2), 61-72

CODEN: JMICAR; ISSN: 0022-2720

PB Blackwell Science Ltd.

DT Journal

LA English

L3 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2001 ACS

AN 1996:542092 CAPLUS

DN 125:230624

TI Control of granule growth in fluidized-bed granulation by an **image
processing** system

AU Watano, Satoru; Sato, Yoshinobu; Miyanami, Kei

CS Dep. Chem. Eng., Osaka Prefecture Univ., Sakai, 593, Japan

SO Chem. Pharm. Bull. (1996), 44(8), 1556-1560

CODEN: CPBTAL; ISSN: 0009-2363

DT Journal

LA English

L3 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2001 ACS

AN 1996:467883 CAPLUS

DN 125:140581

TI A self-tuning vision system for monitoring biotechnological processes. I.
Application to production of pullulan by Aureobasidium pullulans

AU Guterman, H.; Shabtai, Y.

CS Dep. Electric and Computer Eng., Ben-Gurion Univ. Negev, Beer Sheva,
84105, Israel

SO Biotechnol. Bioeng. (1996), 51(5), 501-510
 CODEN: BIBIAU; ISSN: 0006-3592
 DT Journal
 LA English

L3 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:438213 CAPLUS
 DN 125:98008
 TI Defect detection in industrial radiography: a multiscale approach
 AU Lefevre, M.
 CS Dep. Surveillance Diagnostic Maintenance, Elec. France, Fr.
 SO Collect. Notes Internes Dir. Etud. Rech.: Prod. Energ. (Hydraul., Therm. Nucl.) (1996), 96NB00054, 196 pp.
 CODEN: CNIEEZ; ISSN: 1161-0611
 DT Report
 LA French

L3 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:359052 CAPLUS
 DN 125:14444
 TI Monitoring microbial morphogenetic changes in a fermentation process by a Self-Tuning Vision System (STVS)
 AU Shabtai, Y.; Ronen, M.; Mukmenev, I.; Guterman, H.
 CS Program Biotechnol., Ben-Gurion Univ. of the Negev, Beer Sheva, 84105, Israel
 SO Comput. Chem. Eng. (1996), 20(Suppl. A, European Symposium on Computer Aided Process Engineering--6, 1996), S321-D326
 CODEN: CCENDW; ISSN: 0098-1354
 DT Journal
 LA English

L3 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2001 ACS
 AN 1996:156723 CAPLUS
 DN 124:218794
 TI A **fuzzy logic** approach to quantitative HREM
 AU Hillebrand, R; Werner, P; Hofmeister, H; Goesele, U
 CS Max-Planck-Institut Mikrostrukturphysik, Halle, D-06120, Germany
 SO Inst. Phys. Conf. Ser. (1995), Volume Date 1995, 146, 57-60
 CODEN: IPCSEP; ISSN: 0951-3248
 DT Journal
 LA English

L3 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2001 ACS
 AN 1994:684221 CAPLUS
 DN 121:284221
 TI **Fuzzy logic** control of CO2 laser welding
 AU Kinsman, G.; Duley, W. W.
 CS Dept. Physics, University Waterloo, Waterloo, ON, N2L 3G1, Can.
 SO Laser Inst. Am. [Publ.] (1994), 77(PROCEEDINGS OF THE LASER MATERIALS PROCEEDING CONFERENCE, 1993), 160-7
 CODEN: LIAAED
 DT Journal
 LA English

=> d 5,10 all

L3 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2001 ACS
 AN 1998:305618 CAPLUS
 DN 129:88478
 TI **Fuzzy logic** approaches to the analysis of HREM images
 of III-V compounds
 AU Hillebrand, R.
 CS Max-Planck-Institut für Mikrostrukturphysik, Halle/Saale, D-06120,
 Germany
 SO J. Microsc. (Oxford) (1998), 190(1/2), 61-72
 CODEN: JMICAR; ISSN: 0022-2720
 PB Blackwell Science Ltd.
 DT Journal
 LA English
 CC 76-2 (Electric Phenomena)
 AB It is known that high-resoln. electron microscopy (HREM) can provide
 quant. information on the properties of cryst. materials. The HREM
 patterns of layered structures of III-V semiconductors vary with the
 chem. compn. of the latter within the sublattices, which is also influenced by
 interdiffusion. Local variations of the crystal cell similarity are
 recorded for image anal. and compared with templates of known material
 compn. Of the advanced theories of data interpretation, the now
 well-established **fuzzy logic** is highly suited for
 corresponding **image processing** techniques. Combining
 neighboring image cell similarities, the underlying chem. compn. is
 evaluated by applying **fuzzy logic** criteria of
 inference to masks of about 1 nm .times. 1 nm in size. The new approach
 can be used to localize regions of significant changes in compn., i.e.
 edge detection, and to det. the compn. across the interface region. The
 methods introduced prove successfully applicable to simulated as well as
 to exptl. images of AlAs/AlxGal-xAs. Similarity/compn. relations of
 nonlinear as well as nonmonotonic characteristics are studied to
 establish
 an alternative **fuzzy logic** approach.
 ST **fuzzy logic** HREM Group IIIA pnictide
 IT High-resolution electron microscopy
 Imaging
 (fuzzy logic approaches to anal. of HREM images of
 III-V compds.)
 IT Group IIIA element pnictides
 RL: PRP (Properties)
 (fuzzy logic approaches to anal. of HREM images of
 III-V compds.)
 IT Mathematical methods
 (fuzzy logic; fuzzy logic
 approaches to anal. of HREM images of III-V compds.)

L3 ANSWER 10 OF 11 CAPLUS , COPYRIGHT 2001 ACS
 AN 1996:156723 CAPLUS
 DN 124:218794
 TI A **fuzzy logic** approach to quantitative HREM
 AU Hillebrand, R; Werner, P; Hofmeister, H; Goesele, U
 CS Max-Planck-Institut Mikrostrukturphysik, Halle, D-06120, Germany
 SO Inst. Phys. Conf. Ser. (1995), Volume Date 1995, 146, 57-60
 CODEN: IPCSEP; ISSN: 0951-3248
 DT Journal
 LA English
 CC 79-6 (Inorganic Analytical Chemistry)

Section cross-reference(s): 76

AB Analyzing HREM images of III-V compds., a **fuzzy logic** approach is developed to study interdiffusion phenomena in layered structures by using the monotonic relation of image similarity and chem. compn. under appropriate imaging conditions. Simulated and exptl. HREM images of Ga(As,P) (As/P variation) and (Al,Ga)As (Al/Ga variation) are analyzed by **fuzzy logic image processing** to ext. chem. reliefs.

ST group III V compd quant HREM; quant HREM **fuzzy logic**; electron microscopy high resolu **fuzzy logic**; gallium arsenide phosphide quant HREM; aluminum gallium arsenide quant HREM

IT Microscopy, electron
(high-resolu., **fuzzy logic** approach to quant. HREM)

IT 37382-15-3, Aluminum gallium arsenide ((Al,Ga)As) 60953-19-7, Gallium arsenide phosphide
RL: ANT (Analyte); PEP (Physical, engineering or chemical process); ANST (Analytical study); PROC. (Process)
(A **fuzzy logic** approach to quant. HREM)

=> s glass or glassmaking

451947 GLASS
705 GLASSMAKING
L4 452001 GLASS OR GLASSMAKING

=> s furnace

L5 125915 FURNACE

=> s furnace#

L6 142482 FURNACE#

=> s l4 and l6

L7 9260 L4 AND L6

=> d his

(FILE 'HOME' ENTERED AT 12:23:50 ON 21 MAR 2001)

FILE 'CAPLUS' ENTERED AT 12:24:10 ON 21 MAR 2001

L1 817 S FUZZY LOGIC
L2 4930 S IMAGE PROCESSING
L3 11 S L1 AND L2
L4 452001 S GLASS OR GLASSMAKING
L5 125915 S FURNACE
L6 142482 S FURNACE#
L7 9260 S L4 AND L6

=> s l1 and l7

L8 1 L1 AND L7

=> s l2 and l7

L9 2 L2 AND L7

=> s 18 or 19

L10 3 L8 OR L9

=> d 1-3 all

L10 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 2000:602736 CAPLUS

DN 133:312492

TI Advancing control of **glass** melters and forehearths

AU Chmelar, Josef; Bodi, Robert; Muysenberg, Erik

CS Josef Chmelar and Robert Bodi, Glass Service Inc., Vsetin, Czech Rep.

SO Glass (2000), 77(7), 175-176, 178

CODEN: GLASAT; ISSN: 0017-0984

PB DMG World Media (uk) Ltd.

DT Journal

LA English

CC 57-1 (Ceramics)

Section cross-reference(s): 48

AB Practical experience of advanced control using-the GS Expert System II is demonstrated and explained. The system has been used in TV, glassfiber, float and special **glass** facilities, and with air-fuel and oxy-fuel technol. It has been proven that advanced control brings new level (generation) of process optimization to **furnace** technol., from batch charging through to conditioning. Topics include the control algorithm, multi input-multi output (MIMO), MIMO model-based control with feedback, model-based predictive control, **fuzzy logic** control, advanced concept-expert system, and application results of the expert system in melter, refiner and working end control, forehearth control, and elec. melter.

ST advancing control **glass** melter forehearth expert system

IT Process automation

(advancing control of **glass** melters and forehearths)

IT **Glass**, preparation

RL: IMF (Industrial manufacture); PREP (Preparation)

(advancing control of **glass** melters and forehearths)

IT Computer application

(expert systems; advancing control of **glass** melters and forehearths)

IT **Furnaces**

(**glass**-melting; advancing control of **glass** melters and forehearths)

RE.CNT 2

RE

(1) Mikulecky, P; Proceedings of the IV. International seminar on mathematical simulation in glass melting 1997, P172

(2) Muysenberg, E; Proceedings of the V. International seminar on mathematical simulation in glass melting 1999, P162

L10 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 2000:71567 CAPLUS

TI Optical device dedicated to the non-destructive observation and characterization of the solidification of bulk transparent alloys in situ and in real time

AU Noel, N.; Zamkotsian, F.; Jamgotchian, H.; Billia, B.

CS Laboratoire MATOP, Universite d'Aix-Marseille III, Associe au CNRS,
Faculte des Sciences et Techniques de Saint Jerome, Marseille, F-13397,
Fr.

SO Meas. Sci. Technol. (2000), 11(1), 66-73
CODEN: MSTCEP; ISSN: 0957-0233

PB Institute of Physics Publishing

DT Journal

LA English

AB An optical system has been developed to characterize transparent org.
alloys during their directional solidification in situ and in real time
inside bulk samples with a high aspect ratio. Std. solidification expts.
are performed within thin **glass** slides where solidification
behavior is modified compared with bulk solidification due to the space
constraint. On the other hand, the interface can be easily obsd. via a
microscope. For bulk samples, a more complex system had to be
implemented. We designed a specific **glass** observation cell and
an adapted solidification **furnace**. Optical elements were
integrated inside the **glass** observation cell contg. the
solidifying alloy. The resulting **glass** observation cell can be
easily used as a tool for many optical characterization methods. Here we
use the system to generate live images of the solid-liq. interface.

These images, recorded on video, provided very interesting and fruitful
information on the dynamic phenomena appearing at the interface. The
whole interface as well as specific details of the interface could be
obsd. The images showed a resoln. of a few micrometres, suitable to
characterize interface features, as well as a high contrast and a const.
magnification. As a consequence, further **image**
processing to quant. characterize the solid-liq. interface could
be easily performed. A method to det. the av. radius of curvature of a
cellular array was also implemented and is presented here.

RE.CNT 11

RE

- (1) Billia, B; Handbook of Crystal Growth 1993, V1B
- (2) Billia, B; J Cryst Growth 1996, V167, P265 CAPLUS
- (3) Billia, B; Metal Trans A 1991, V22, P3041
- (4) Flemings, M; Solidification Processing 1974
- (5) Hecht, E; Optics 2nd edn 1990
- (6) Jackson, K; Acta Metall 1965, V13, P1212
- (7) Kassner, K; Phys Rev E 1998, V57, P2849 CAPLUS
- (8) Noel, N; Entropie 1999, V215, P74
- (9) Noel, N; J Cryst Growth 1997, V181, P117
- (10) Noel, N; J Cryst Growth 1998, V187, P516 CAPLUS
- (11) Scheafer, R; Metall Trans 1970, V1, P1973

L10 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2001 ACS

AN 1997:675312 CAPLUS

DN 127:335644

TI Quantitative estimation of **glass** content in granulated blast
furnace slag - a comparative analysis

AU Behera, R. C.; Swain, P. K.

CS Dept of Metallurgical Engg, Regional Engineering College, Rourkela, 769
008, India

SO Trans. Indian Ceram. Soc. (1997), Volume Date 1996, 55(6), 151-155
CODEN: TICSAP; ISSN: 0371-750X

PB Indian Ceramic Society

DT Journal

LA English

CC 58-4 (Cement, Concrete, and Related Building Materials)
 Section cross-reference(s): 57, 79

AB Three different methods, namely (i) **image processing**,
 (ii) XRD based on peak area or height and (iii) XRD based on pulse counts
 have been adopted for estn. of **glass** content in granulated blast
furnace-slag (BFS). Though the methods based on image anal. and
 XRD are found to be accurate, the latter is a time consuming technique.
 The av. difference of results as estd. by image anal. taken over five
 samples is found to be 0.05% with XRD based on pulse counts and 0.19%

with
 XRD based on peak area.

ST blast **furnace** slag **glass** content

IT Blast **furnace** slags
 (quant. estn. of **glass** content in granulated blast
furnace slag)

IT **Glass**, analysis
 RL: ANT (Analyte); ANST (Analytical study)
 (quant. estn. of **glass** content in granulated blast
furnace slag)

IT Imaging
 X-ray diffractometry
 (quant. estn. of **glass** content in granulated blast
furnace slag by)

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CONNECT HOURS	0.08 @	31.00	2.48
INTERNET HOURS	0.08 @	6.00	0.48
DISPLAYS IN FORMAT ABS	5 @	1.21	6.05
DISPLAYS IN FORMAT BIB	16 @	0.86	13.76
DISPLAYS IN FORMAT IND	5 @	0.26	1.30
SEARCH TERMS IN FIELD BI	8 @	1.48	11.84
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CAPLUS FILE		(NONE)	0.08	37.68

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SUMMARY BY	COST CENTER	HOURS	ESTIMATED COST U.S. DOLLARS
	(NONE)	0.09	37.89
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	ENTRY	SESSION
FULL ESTIMATED COST	37.68	37.89
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.94	-2.94

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Search Results:

Search for: ("fuzzy logic" and "glass furnace")
Database: [Electronic Journals](#)
Returned: 0 documents (Maximum set to: 50)

Search executed on: Wednesday, 21-Mar-01 12:51:40 EST.
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This database contains 41,149,116 words in 393,619 documents.
There are 1,820,056 unique words and 547 stop words.
The database was indexed using the plural stemmer

Your search:
("fuzzy logic" and "glass furnace")

Is equivalent to:
((fuzzy logic ADJ) and AND (glass furnace ADJ) AND)

Search for 'fuzzy', stemmed to 'fuzzy'
'fuzzy' occurs 12,943 times in 2,260 documents

Search for 'logic', stemmed to 'logic'
'logic' occurs 1,632 times in 773 documents

Search for 'and', stemmed to 'and'
'and' is a stop word and is not indexed

Search for 'glass', stemmed to 'glass'
'glass' occurs 17,475 times in 7,338 documents

Search for 'furnace', stemmed to 'furnace'
'furnace' occurs 1,782 times in 1,071 documents

The search retrieved no documents.

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Search Results:

Search for: ("membership function" and "glass furnace")
Database: [Electronic Journals](#)
Returned: 0 documents (Maximum set to: 50)

Search executed on: Wednesday, 21-Mar-01 12:52:10 EST.
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Version: 2.5.3 - production (Aug 5 1999, 14:29:26).

Search on database: journals
This database contains 41,149,116 words in 393,619 documents.
There are 1,820,056 unique words and 547 stop words.
The database was indexed using the plural stemmer

Your search:
("membership function" and "glass furnace")

Is equivalent to:
((membership function ADJ) and AND (glass furnace ADJ) AND)

Search for 'membership', stemmed to 'membership'
'membership' occurs 655 times in 377 documents

Search for 'function', stemmed to 'function'
'function' occurs 50,740 times in 34,950 documents

Search for 'and', stemmed to 'and'
'and' is a stop word and is not indexed

Search for 'glass', stemmed to 'glass'
'glass' occurs 17,475 times in 7,338 documents

Search for 'furnace', stemmed to 'furnace'
'furnace' occurs 1,782 times in 1,071 documents

The search retrieved no documents.

The search took less than a second.

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Search Results:

Search for: ("fuzzy set" and "glass furnace")
Database: [Electronic Journals](#)
Returned: 0 documents (Maximum set to: 50)

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Version: 2.5.3 - production (Aug 5 1999, 14:29:26).

Search on database: journals
This database contains 41,149,116 words in 393,619 documents.
There are 1,820,056 unique words and 547 stop words.
The database was indexed using the plural stemmer

Your search:
("fuzzy set" and "glass furnace")

Is equivalent to:
((fuzzy set ADJ) and AND (glass furnace ADJ) AND)

Search for 'fuzzy', stemmed to 'fuzzy'
'fuzzy' occurs 12,943 times in 2,260 documents

Search for 'set', stemmed to 'set'
'set' occurs 17,800 times in 12,356 documents

Search for 'and', stemmed to 'and'
'and' is a stop word and is not indexed

Search for 'glass', stemmed to 'glass'
'glass' occurs 17,475 times in 7,338 documents

Search for 'furnace', stemmed to 'furnace'
'furnace' occurs 1,782 times in 1,071 documents

The search retrieved no documents.

The search took less than a second.

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[Simple search
form](#)

[Expanded search
form](#)

Search Results:

Search for: (fuzzy glassmaking) AND category=("infocomm")
Database: [Electronic Journals](#)
Returned: 0 documents (Maximum set to: 50)

Search executed on: Wednesday, 21-Mar-01 12:53:21 EST.
MPS Server, Copyright (C) 1993-1999, FS Consulting Inc. All rights reserved.
Version: 2.5.3 - production (Aug 5 1999, 14:29:26).

Search on database: journals
This database contains 41,149,116 words in 393,619 documents.
There are 1,820,056 unique words and 547 stop words.
The database was indexed using the plural stemmer

Your search:
(fuzzy glassmaking) AND category=("infocomm")

Is equivalent to:
(fuzzy glassmaking AND) (category="infocomm") AND

Search for 'fuzzy', stemmed to 'fuzzy'
'fuzzy' occurs 12,943 times in 2,260 documents

Search for 'glassmaking', stemmed to 'glassmaking'
'glassmaking' occurs 2 times in one document

Search for "'infocomm'" restricted to '=' in 'category' field
Literal search for 'infocomm'
'infocomm' occurs 21,145 times in 21,145 documents

The search retrieved no documents.

The search took less than a second.

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L Number	Hits	Search Text	DB	Time stamp
3	1225	membership adj function	USPAT; US-PGPUB	2001/03/21 11:51
4	321	inference adj rule	USPAT; US-PGPUB	2001/03/21 11:52
5	681	fuzzy adj set	USPAT; US-PGPUB	2001/03/21 12:03
6	4330	melting adj furnace	USPAT; US-PGPUB	2001/03/21 12:04
7	3	(membership adj function) and (melting adj furnace)	USPAT; US-PGPUB	2001/03/21 12:04
8	2	(inference adj rule) and (melting adj furnace)	USPAT; US-PGPUB	2001/03/21 12:04
9	2	(fuzzy adj set) and (melting adj furnace)	USPAT; US-PGPUB	2001/03/21 12:04
10	3	((membership adj function) and (melting adj furnace)) or ((inference adj rule) and (melting adj furnace)) or ((fuzzy adj set) and (melting adj furnace))	USPAT; US-PGPUB	2001/03/21 12:05
11	413968	image or video	USPAT; US-PGPUB	2001/03/21 12:06
12	1	((membership adj function) and (melting adj furnace)) or ((inference adj rule) and (melting adj furnace)) or ((fuzzy adj set) and (melting adj furnace))) and (image or video)	USPAT; US-PGPUB	2001/03/21 12:09
13	2008	glass adj furnace	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/21 12:10
14	70	(image or video) and (glass adj furnace)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/21 12:10
-	47	65/29.11.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/19 13:30
-	14489	fuzzy	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/19 13:30
-	1	65/29.11.ccls. and fuzzy	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/19 13:32
-	65502	c03b\$.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/19 13:33
-	28	fuzzy and c03b\$.ipc.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/19 13:33
-	1	EP-976685-\$.DID.	DERWENT	2001/03/19 14:01
-	1132	glass adj furnace	USPAT	2001/03/19 14:09

-	2006	glass adj furnace	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/21 12:09
-	5	fuzzy and (glass adj furnace)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/19 14:10
-	3	(fuzzy and (glass adj furnace)) not ((fuzzy and c03b\$.ipc.) or (65/29.11.ccls. and fuzzy))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2001/03/19 14:10